

IN THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in this application.

5 --1. – 3. **(Canceled)**

4. **(Currently Amended)** A computer switching system comprising:

a user interface device for multiplexing signals output from a connected keyboard and

cursor control device and for providing an interface to a video display;

10 a switch unit for enabling communication between said user interface device and a plurality of remotely located computers, said switch unit coupled to said user interface device by a single first connection; and

a plurality of computer interface modules each coupled to said switch unit by a single second connection, each of said computer interface modules coupled to at least

15 one of said remotely located computers;

wherein video signals output from said remotely located computers are transmitted to said video display via said switch unit;

wherein said user interface device comprises an amplification circuit for automatically amplifying said transmitted video signals based on at least a synchronization signal transmitted
20 with a component of said video signal;

wherein said user interface device ~~receives transmits signals from said~~ keyboard and said cursor control device signals, packetizes at least one of said keyboard or cursor control signals

and transmits said packetized signal with command data to said switch unit; and
wherein said switch unit interprets said keyboard and cursor control device command
data which identifies at least one of said remotely located computers, signals generates an
emulated keyboard and or cursor control device signals signal based on said packetized signal
5 and transmits said emulated keyboard and cursor control device signals signal to a select one of
said identified remotely located computers computer.

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5. (Currently Amended) A system according to claim 4, wherein at least one of said first and
second connections each comprise a series of twisted pair conducting wires.

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6. (Currently Amended) A system according to claim 5, wherein each said component of said
video signals is transmitted on one of said twisted pair conducting wires ~~of said first and second~~
~~connections~~, and wherein said keyboard and cursor control device signals are transmitted on a
separate one of said twisted pair conducting wires.

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7. (Currently Amended) A system according to claim [[6]] 5, wherein [[a]] said
synchronization signal is transmitted with ~~on~~ one of said components of said video signals on
one of said twisted pair conducting wires.

8. (Currently Amended) A system according to claim [[7]] 4, wherein said synchronization
signal is decoded by said user interface device.

9. **(Currently Amended)** A system according to claim 5, wherein said command data is transmitted with said keyboard and cursor control signals on a separate one of said twisted pair conducting wires.

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10. **(Canceled)**

11. **(Previously Presented)** A system according to claim 4, wherein each of said plurality of computer interface modules receives power from one of said remote computers.

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12. **(Currently Amended)** A system according to claim 4, wherein said ~~user interface device~~ ~~comprises circuitry amplification circuit for said amplifying amplifies the amplitude and frequency components of~~ said video signals by analyzing said synchronization signal.

15 13. – 15. **(Canceled)**

16. **(Currently Amended)** A system according to claim [[13]] 4, wherein said synchronization signal is a horizontal or vertical synchronization signal.

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17. (Currently Amended) A computer switching system comprising:

a user station including a keyboard, cursor control device and video display;

a switch for enabling communication between said user station and a plurality of remotely located computers, wherein said switch is coupled to said user station by a first connection; and

a plurality of computer interface modules each coupled to a communication circuit of one of said plurality of remote computers and each of said computer interface modules coupled to said switch by a second connection;

wherein said user station receives keyboard and cursor control device signals, packetizes

10 at least one of said keyboard or cursor control device signals, and transmits said packet provides keyboard and cursor control device signals with command data to said switch;

wherein said switch interprets said command data in said packet to determine a destination of said packet, emulates keyboard and or cursor control device signals, and transmits said emulated keyboard and or cursor control device signals signal to one of said remote computers destination;

wherein one of said computer interface modules receives video signals having red, green, and blue components from one of said remote computers and encodes synchronization signals onto at least one of said components for transmission to said user station through said switch; and

20 wherein said user station analyzes said encoded synchronization signals to automatically amplify one or more frequency components of said video signals.

18. **(Previously Presented)** A system according to claim 17, wherein each of said computer interface modules receives power from one of said remotely located computers.

19. **(Currently Amended)** A system according to claim 17, wherein at least one of said first and
5 second connections ~~each~~ comprise a series of twisted pair conducting wires.

20. **(Currently Amended)** A system according to claim 19, wherein each ~~said~~ component of
said video signals is transmitted on one of said twisted pair conducting wires ~~of said first and~~
~~second connections,~~ and wherein said keyboard and cursor control device signals are transmitted
10 on a separate one of said twisting pair conducting wires.

21. **(Previously Presented)** A system according to claim 17, wherein said synchronization
signals are encoded as negative signals.

15 22. **(Previously Presented)** A system according to claim 17, wherein said synchronization
signals comprise horizontal or vertical synchronization signals.

23. **(Previously Presented)** A system according to claim 17, wherein said user station
compares said synchronization signals to a signal of known shape to determine a degradation of
20 said synchronization signals.

24. **(Previously Presented)** A system according to claim 23, wherein said user station amplifies said one or more frequency components of said video signals to compensate for said degradation.

25. **(Currently Amended)** A method for remotely operating a remote computer, said method
5 comprising the steps of:

receiving keyboard signals from a local keyboard at a user station;

receiving cursor control device signals from a local cursor control device at said user
station;

transmitting said keyboard and cursor control device signals with command data to a
10 central switch;

interpreting said command data and said keyboard and cursor control device signals, said
central switch including a circuit for producing emulated keyboard and cursor
control device signals at said central switch;

transmitting said emulated keyboard and cursor control device signals to said remote
15 computer;

receiving video signals at said central switch from said remote computer in response to
said emulated keyboard and cursor control device signals;

transmitting said video signals to said user station; and

amplifying at least one frequency component of said video signals based on
20 synchronization signals transmitted with said video signals to produce tuned video
signals for display at said user station.

26. (**Currently Amended**) A method according to claim 25, said method further comprising the step of:

encoding said synchronization signals onto said video signals from said remote computer.

5 27. (**Currently Amended**) A method according to claim [[26]] 25, further comprising the step of:

analyzing said synchronization signals to determine a level of amplification for said at least one frequency component of said video signals.

10 28. (**Currently Amended**) A method according to claim [[26]] 25, wherein said synchronization signals comprise horizontal or vertical synchronization signals.--